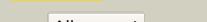
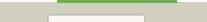
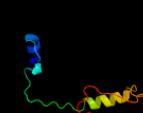
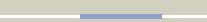


Phyre²

Email	mdejesus@rockefeller.edu
Description	RVBD0690C_(-)_790027_791076
Date	Fri Jul 26 01:50:26 BST 2019
Unique Job ID	bf82b5d935eb3411

Detailed template information

#	Template	Alignment Coverage	3D Model	Confidence	% i.d.	Template Information
1	c5dpIB_			72.9	17	PDB header: transferase Chain: B; PDB Molecule: protein lysine methyltransferase 2; PDBTitle: the structure of pkmt2 from rickettsia typhi in complex with adohcy
2	c6cn0B_			70.0	17	PDB header: transferase Chain: B; PDB Molecule: 16s rrna (guanine(1405)-n(7))-methyltransferase; PDBTitle: 2.95 angstrom crystal structure of 16s rrna methylase from proteus2 mirabilis
3	c5do0A_			56.4	18	PDB header: transferase Chain: A; PDB Molecule: protein lysine methyltransferase 1; PDBTitle: the structure of pkmt1 from rickettsia prowazekii
4	c5mpmA_			50.0	28	PDB header: transferase Chain: A; PDB Molecule: citrinin polyketide synthase; PDBTitle: structure of the citrinin polyketide synthase cmet domain
5	d1af7a2			45.2	16	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Chemotaxis receptor methyltransferase CheR, C-terminal domain
6	c3tfwB_			30.7	18	PDB header: transferase Chain: B; PDB Molecule: putative o-methyltransferase; PDBTitle: crystal structure of a putative o-methyltransferase from klebsiella2 pneumoniae
7	c3fzgA_			23.9	17	PDB header: transferase Chain: A; PDB Molecule: 16s rrna methylase; PDBTitle: structure of the 16s rrna methylase arma
8	c5n5dA_			23.8	16	PDB header: transferase Chain: A; PDB Molecule: methyltransferase; PDBTitle: crystal structure of the o-methyltransferase tomg from streptomyces2 achromogenes involved in tomaymycin synthesis in complex with sam
9	d1kyza2			22.9	19	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Plant O-methyltransferase, C-terminal domain
10	d1ogmx1			22.5	31	Fold: Dextranase, N-terminal domain Superfamily: Dextranase, N-terminal domain Family: Dextranase, N-terminal domain
11	d1fyea_			22.0	25	Fold: Flavodoxin-like Superfamily: Class I glutamine amidotransferase-like Family: Aspartyl dipeptidase PepE

12	d1qta_	Alignment		21.9	20	Fold: TIM beta/alpha-barrel Superfamily: Xylose isomerase-like Family: Xylose isomerase
13	c2yr0A_	Alignment		21.5	13	PDB header: transferase Chain: A: PDB Molecule: hypothetical protein ttha0223; PDBTitle: crystal structure of hypothetical methyltransferase ttha0223 from2 thermus thermophilus hb8
14	c2ys9A_	Alignment		20.1	23	PDB header: transcription Chain: A: PDB Molecule: homeobox and leucine zipper protein homez; PDBTitle: structure of the third homeodomain from the human homeobox2 and leucine zipper protein, homez
15	c5xld_	Alignment		19.1	15	PDB header: transferase Chain: D: PDB Molecule: chemotaxis protein methyltransferase 1; PDBTitle: crystal structure of the c-terminal domain of cher1 containing sah
16	c3ssmB_	Alignment		17.8	16	PDB header: transferase Chain: B: PDB Molecule: methyltransferase; PDBTitle: mycE methyltransferase from the mycinamycin biosynthetic pathway in2 complex with mg and sah, crystal form 1
17	d2bm8a1	Alignment		16.5	29	Fold: S-adenosyl-L-methionine-dependent methyltransferases Superfamily: S-adenosyl-L-methionine-dependent methyltransferases Family: Cmcl-like
18	c4azsA_	Alignment		16.3	11	PDB header: transferase Chain: A: PDB Molecule: methyltransferase wbdd; PDBTitle: high resolution (2.2 a) crystal structure of wbdd.
19	c5ufmB_	Alignment		16.1	15	PDB header: transferase Chain: B: PDB Molecule: methyltransferase domain protein; PDBTitle: crystal structure of burkholderia thailandensis 1,6-2 didemethyltoxoflavin-n1-methyltransferase with bound 1,6-3 didemethyltoxoflavin and s-adenosylhomocysteine
20	c2gsIE_	Alignment		15.2	12	PDB header: structural genomics, unknown function Chain: E: PDB Molecule: hypothetical protein; PDBTitle: x-ray crystal structure of protein fn1578 from fusobacterium2 nucleatum. northeast structural genomics consortium target nr1.
21	c2r6zA_	Alignment	not modelled	14.3	16	PDB header: transferase Chain: A: PDB Molecule: upf0341 protein in rsp 3' region; PDBTitle: crystal structure of the sam-dependent methyltransferase ngo1261 from2 neisseria gonorrhoeae, northeast structural genomics consortium3 target ngr48
22	c4dnhA_	Alignment	not modelled	14.3	14	PDB header: structural genomics, unknown function Chain: A: PDB Molecule: uncharacterized protein; PDBTitle: crystal structure of hypothetical protein smc04132 from sinorhizobium2 meliloti 1021
23	d1u61a_	Alignment	not modelled	13.6	9	Fold: RNase III domain-like Superfamily: RNase III domain-like Family: RNase III catalytic domain-like
24	c3tr6A_	Alignment	not modelled	13.4	14	PDB header: transferase Chain: A: PDB Molecule: o-methyltransferase; PDBTitle: structure of a o-methyltransferase from coxiella burnetii
25	c6g4wq_	Alignment	not modelled	11.6	33	PDB header: ribosome Chain: Q: PDB Molecule: 40s ribosomal protein s16; PDBTitle: cryo-em structure of a late human pre-40s ribosomal subunit - state a
26	d1j30a_	Alignment	not modelled	11.6	13	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ferritin
27	d1afra_	Alignment	not modelled	11.0	15	Fold: Ferritin-like Superfamily: Ferritin-like Family: Ribonucleotide reductase-like
28	d1vprial	Alignment	not modelled	10.9	35	Fold: Lipocalins Superfamily: Lipocalins Family: Dinoflagellate luciferase repeat

29	d1uxda	Alignment	not modelled	10.6	13	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: GalR/LacI-like bacterial regulator
30	c5zy5B	Alignment	not modelled	10.5	20	PDB header: transferase Chain: B: PDB Molecule: probable catechol o-methyltransferase 1; PDBTitle: spcomt apo structure
31	c3icaB	Alignment	not modelled	9.9	41	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-tRNA synthetase beta chain; PDBTitle: the crystal structure of the beta subunit of a phenylalanyl-tRNA synthetase from porphyromonas gingivalis w83
32	c3duwB	Alignment	not modelled	9.7	19	PDB header: transferase Chain: B: PDB Molecule: o-methyltransferase, putative; PDBTitle: crystal structural analysis of the o-methyltransferase from 2 bacillus cereus in complex sah
33	c3l4gL	Alignment	not modelled	9.6	45	PDB header: ligase Chain: L: PDB Molecule: phenylalanyl-tRNA synthetase beta chain; PDBTitle: crystal structure of homo sapiens cytoplasmic phenylalanyl-tRNA synthetase
34	c4xalA	Alignment	not modelled	9.4	27	PDB header: viral protein Chain: A: PDB Molecule: tegument protein vp22; PDBTitle: crystal structure of the conserved core domain of vp22 from hsv-1
35	c5w7kA	Alignment	not modelled	9.0	17	PDB header: transferase Chain: A: PDB Molecule: oxag; PDBTitle: crystal structure of oxag
36	d1sv0c	Alignment	not modelled	8.3	17	Fold: SAM domain-like Superfamily: SAM/Pointed domain Family: Pointed domain
37	d1ndba1	Alignment	not modelled	8.2	18	Fold: CoA-dependent acyltransferases Superfamily: CoA-dependent acyltransferases Family: Choline/Carnitine O-acyltransferase
38	d2d32a1	Alignment	not modelled	7.9	15	Fold: Glutamine synthetase/guanido kinase Superfamily: Glutamine synthetase/guanido kinase Family: Glutamate-cysteine ligase
39	c2qpxA	Alignment	not modelled	7.4	19	PDB header: hydrolase Chain: A: PDB Molecule: predicted metal-dependent hydrolase of the tim-barrel fold; PDBTitle: crystal structure of putative metal-dependent hydrolase (yp_805737.1)2 from lactobacillus casei atcc 334 at 1.40 a resolution
40	c3ig2B	Alignment	not modelled	7.4	27	PDB header: ligase Chain: B: PDB Molecule: phenylalanyl-tRNA synthetase beta chain; PDBTitle: the crystal structure of a putative phenylalanyl-tRNA synthetase2 (phers) beta chain domain from bacteroides fragilis to 2.1a
41	c6c8rA	Alignment	not modelled	7.2	38	PDB header: transferase Chain: A: PDB Molecule: loganic acid o-methyltransferase; PDBTitle: loganic acid o-methyltransferase complexed with sah and loganic acid
42	c2l8nA	Alignment	not modelled	6.6	6	PDB header: transcription regulator Chain: A: PDB Molecule: transcriptional repressor cytr; PDBTitle: nmr structure of the cytidine repressor dna binding domain in presence2 of operator half-site dna
43	d1uxca	Alignment	not modelled	6.6	13	Fold: lambda repressor-like DNA-binding domains Superfamily: lambda repressor-like DNA-binding domains Family: GalR/LacI-like bacterial regulator
44	c3b5iB	Alignment	not modelled	6.5	29	PDB header: transferase Chain: B: PDB Molecule: s-adenosyl-l-methionine:salicylic acid carboxyl PDBTitle: crystal structure of indole-3-acetic acid methyltransferase
45	d1vg0a2	Alignment	not modelled	6.4	29	Fold: FAD-linked reductases, C-terminal domain Superfamily: FAD-linked reductases, C-terminal domain Family: GDI-like
46	c4azwA	Alignment	not modelled	6.2	12	PDB header: transferase Chain: A: PDB Molecule: wbdd; PDBTitle: crystal structure of monomeric wbdd.
47	d1hi9a	Alignment	not modelled	6.2	17	Fold: Dipeptide transport protein Superfamily: Dipeptide transport protein Family: Dipeptide transport protein
48	c2j5hA	Alignment	not modelled	6.1	33	PDB header: hormone/growth factor Chain: A: PDB Molecule: teratocarcinoma-derived growth factor; PDBTitle: nmr analysis of mouse cripto cfc domain
49	c4d0uD	Alignment	not modelled	6.1	33	PDB header: viral protein Chain: D: PDB Molecule: fiber protein; PDBTitle: crystal structure of the fiber head domain of the adenovirus snake2 adenovirus 1, selenomethionine-derivative
50	c2lxrA	Alignment	not modelled	5.8	38	PDB header: oxidoreductase Chain: A: PDB Molecule: nadh dehydrogenase i subunit e; PDBTitle: solution structure of hp1264 from helicobacter pylori
51	d1jicb5	Alignment	not modelled	5.7	41	Fold: Class II aaRS and biotin synthetases Superfamily: Class II aaRS and biotin synthetases Family: Class II aminoacyl-tRNA synthetase (aaRS)-like, catalytic domain
52	c4p8bA	Alignment	not modelled	5.7	10	PDB header: transport protein Chain: A: PDB Molecule: trap-type transporter, periplasmic component; PDBTitle: crystal structure of a trap periplasmic solute binding protein from2 ralstonia eutropha h16 (h16_a1328), target efi-510189, with bound3 (s)-2-hydroxy-2-methyl-3-oxobutanate ((s)-2-acetylactate)
53	c4lfyB	Alignment	not modelled	5.6	21	PDB header: hydrolase Chain: B: PDB Molecule: dihydroorotase; PDBTitle: crystal structure of a dihydroorotase from burkholderia cenocepacia2 [2315]
54	c2v1vA	Alignment	not modelled	5.4	22	PDB header: immune system, membrane protein Chain: A: PDB Molecule: t-cell surface glycoprotein cd4;

54	c2nua	Alignment	not modelled	5.4	55	PDBTitle: nmr structure of the transmembrane and cytoplasmic domains2 of human cd4
55	c3vptA	Alignment	not modelled	5.4	19	PDB header: transferase Chain: A: PDB Molecule: glutathione s-transferase sigma; PDBTitle: crystal structure of bombyx mori sigma-class glutathione transferase2 in apo form
56	c3r3hA	Alignment	not modelled	5.3	19	PDB header: transferase Chain: A: PDB Molecule: o-methyltransferase, sam-dependent; PDBTitle: crystal structure of o-methyltransferase from legionella pneumophila
57	d2gfqa1	Alignment	not modelled	5.3	46	Fold: Phosphorylase/hydrolase-like Superfamily: AF0625-like Family: AF0625-like
58	c3wdkA	Alignment	not modelled	5.3	18	PDB header: ligase Chain: A: PDB Molecule: 4-phosphopantoate--beta-alanine ligase; PDBTitle: crystal structure of 4-phosphopantoate-beta-alanine ligase complexed2 with reaction intermediate
59	c3jzeC	Alignment	not modelled	5.2	12	PDB header: hydrolase Chain: C: PDB Molecule: dihydroorotase; PDBTitle: 1.8 angstrom resolution crystal structure of dihydroorotase (pyrc)2 from salmonella enterica subsp. enterica serovar typhimurium str. lt2
60	c5z16A	Alignment	not modelled	5.1	5	PDB header: isomerase Chain: A: PDB Molecule: histidine racemase; PDBTitle: histidine racemase from leuconostoc mesenteroides subsp. sake nbrc2 102480
61	c3jwgA	Alignment	not modelled	5.0	19	PDB header: transferase Chain: A: PDB Molecule: methyltransferase type 12; PDBTitle: crystal structure analysis of the methyltransferase domain2 bacterial-cthen1-c